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QUIZZES

Practice test 1 Unit 12



10 Questions



7 min

Topics

The atom to include protons, neutrons and electrons. (Atomic Nucleus), Spontaneous and random nuclear decay/ the Law of Radioactive Decay

Start Quiz

SAEED MDCAT TEAM



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06 : 59



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1/10



7 min



Hint

Q : How many neutrons are there in the nuclide Zn_{30}^{66} ?

A

22

B

30

C

36

D

66

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 56



2/10



7 min



Hint

Q : The number of neutrons present in the nucleus is given by

A

$$N = (Z - A)$$

B

$$N = (A - Z)$$

C

$$A = (Z - N)$$

D

$$Z = (N - A)$$

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 54



3/10



7 min



Hint

Q : Both Xenon and cesium each have

A

13 isotopes

B

34 isotopes

C

36 isotopes

D

10 isotopes

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 52



4/10



7 min



Hint

Q : The number of neutrons in the nucleus of ${}_3\text{Li}^4$ are

A

4

B

3

C

1

D

7

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 50



5/10



7 min



Hint

Q : Neutron and proton are commonly known as

A

Nucleon

B

Meson

C

Boson

D

Quartz

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7

06 : 48



6/10



7 min



Hint

Q :

Radioactivity is a _____

- (I) Spontaneous activity
- (II) Chemical property
- (III) Self disintegration property

Which of above statements is/are correct?

A

I & II

B

II & III

C

III & I

D

I, II & III

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1

2

3

4

5

6

7

06 : 46



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7/10



7 min



Hint

Q : Which of the following nuclear decay occur due to nuclear transition

A

α decay

B

γ decay

C

β decay

D

All of these

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1

2

3

4

5

6

7

06 : 43



8/10



7 min



Hint

Q : An α -particle is emitted from ${}_{88}\text{Ra}^{226}$. What is the mass and atomic number of the daughter nucleus?

A

Mass number
number

224
86

Atomic

B

Mass number
Atomic number

220
80

C

Mass number
Atomic number

222
86

D

Mass number
Atomic number

226
87

4

5

6

7

8

9

10

06 : 40



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9/10



7 min



Hint

Q : β -rays, emitted from a radioactive material, are known as

A

neutral particles

B

electrons orbiting around the nucleus

C

charged particles emitted by nucleus

D

electromagnetic radiations

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4

5

6

7

8

9

10

Q : Strontium-90 is used as _____

- ☒ β -particle source
- ☐ α -particle source
- ☐ γ -rays source
- ☐ Neutron source

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SAEED MDCAT TEAM

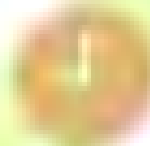
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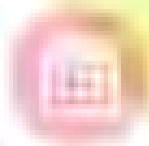


QUIZ RESULT

Practice test 1 Unit 12



Time



Score



C / 10



0%

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correct



1/10

Q · How many neutrons are there in the nuclide Zn_{30}^{66} ?



22



30



36



66

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correct



2/10

Q : The number of neutrons present in the nucleus is given by



$$N = (Z - A)$$

—



$$N = (A - Z)$$



$$A = (Z - N)$$



$$Z = (N - A)$$

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correct



3/10

Q : Both Xenon and cesium each have



13 isotopes



34 isotopes



36 isotopes



10 isotopes

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Correct



Incorrect



Incorrect



4/10

Q : The number of neutrons in the nucleus of ${}^4_3\text{Li}$ are



4



3



1



7

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Correct



Estimated



Incorrect



5/10

Q : Neutron and proton are commonly known as



Nucleon



Meson



Boson



Quartz

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SAEED MDCAT TEAM



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1. _____



2. _____



correct



6/10

Q:

Radioactivity is a _____

(I) Spontaneous activity

(II) Chemical property

(III) Self disintegration property

Which of above statements is/are correct?



I & II



II & III



III & I



I, II & III

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correct



7/10

Q : Which of the following nuclear decay occur due to nuclear transition



α decay



γ decay



β decay



All of these

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SAEED MDCAT TEAM



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Correct



Unattempted



Incorrect



8/10

Q : An α -particle is emitted from ${}_{88}\text{Ra}^{226}$. What is the mass and atomic number of the daughter nucleus?



Mass number

Atomic

number

224

86



Mass number

Atomic number

220

80



Mass number

Atomic number

222

86



Mass number

Atomic number

226

87



Correct



Unanswered



Incorrect



9/10

Q : β rays, emitted from a radioactive material, are known as



neutral particles



electrons orbiting around the nucleus



charged particles emitted by nucleus



electromagnetic radiations

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correct



10/10

Q : Strontium 90 is used as _____



β particle source



α -particle source



γ -rays source



Neutron source

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QUIZZES

Practice test 2 Unit 12

10 Questions

10 Marks

10 Minutes

Start Quiz

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Q : A radioactive substance is at $t=0$, the number of atoms is 8×10^4 . Its half-life period is 3 years. The number of atoms 1×10^4 will remain after interval

- ☐ 19 years
- ☒ 24 years
- ☐ 9 years
- ☐ 6 years

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SAEED MDCAT TEAM

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Q : The radioactivity of a certain radioactive element drops to $\frac{1}{64}$ of its initial value in 30 seconds. Its half life is

☐ 4 seconds

☒ 3 seconds

☐ 5 seconds

☐ 2 seconds

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SAEED MDCAT TEAM

 SAEEDMDCAT

Q : The decay constant of radium is 4.28×10^{-4} per year. Its half-life will be

- ☐ 1240 years
- ☐ 2000 years
- ☐ 1620 years
- ☐ 63 years

SAEED MDCAT

SAEED MDCAT TEAM

 SAEEDMDCAT

Q : Half-life of a radioactive substance is T . The time taken for all the nuclei to disintegrate will be

- ☐ $2T$
- ☒ uncertain
- ☐ $4T$
- ☐ T^2

SAEED MDCAT

SAEED MDCAT TEAM

 SAEEDMDCAT

Q : The activity of a radioactive sample is 1.6 curie and its half life is 2.5 days. Its activity after 10 days will be:

- ☐ 0.8 curie
- ☐ 0.4 Curie
- ☐ 0.1 curie
- ☐ 0.16 Curie

SAEED MDCAT

SAEED MDCAT TEAM

SAEEDMDCAT

Q : The half life of radium-226 is

- ☐ 1620 years
- ☐ 1920 years
- ☐ 19 20 years
- ☐ 19.23 years

SAEED MDCAT

SAEED MDCAT TEAM

SAEEDMDCAT

Q : The ratio of the fraction of decaying atoms per unit time is called

- ☐ half life
- ☐ decay time
- ☐ decay constant
- ☐ decay element

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SAEED MDCAT TEAM

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Q : The SI unit of decay constant is

- ☐ m
- ☐ m^{-1}
- ☐ s^{-1}
- ☐ ms^{-1}

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SAEED MDCAT TEAM

 SAEEDMDCAT

Q : Tungsten-176 has a half-life of 2.5 hours. After how many hours will the disintegration rate of a

tungsten-176 sample drop to $\frac{1}{10}$ its initial value?

☐ 5

☐ 8.3

☐ 10

☐ 13

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Q : The half life of a certain element is 3.5 days at S.T.P .If the temperature is doubled and pressure is reduced to half then half life of the same element will be

☐ 1.75 days

☒ 7 days

☐ 3.5 days

☐ 14 days

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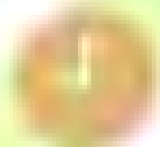
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QUIZ RESULT

Practice test 2 Unit 12



Time



Score



C/10



0%

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correct



1/10

Q : A radioactive substance is at $t=0$, the number of atoms is 8×10^4 . Its half life period is 3 years. The number of atoms 1×10^4 will remain after interval



19 years



24 years



9 years



6 years

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SAEED MDCAT TEAM



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correct



2/10

Q : The radioactivity of a certain radioactive element drops to $1/64$ of its initial value in 30 seconds. Its half-life is



4 seconds



3 seconds



5 seconds



2 seconds

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SAEED MDCAT TEAM



SAEEDMDCAT



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Correct



Incorrect



Correct



3/10

Q : The decay constant of radium is 4.28×10^{-4} per year. Its half life will be



1240 years



2000 years



1620 years



63 years

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correct



4/10

Q : Half life of a radioactive substance is T The time taken for all the nuclei to disintegrate will be



$2T$



uncertain



$4T$



T^2

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Correct



5/10

Q : The activity of a radioactive sample is 1.6 curie and its half life is 2.5 days Its activity after 10 days will be



0.8 curie



0.4 Curie



0.1 curie



0.16 Curie

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correct



6/10

Q : The half life of radium 226 is



1620 years



1920 years



19.20 years



19.23 years

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Correct



Unattempted



Incorrect



7/10

Q : The ratio of the fraction of decaying atoms per unit time is called



half life



decay time



decay constant



decay element

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correct



8/10

Q : The SI unit of decay constant is



m



m^{-1}



s^{-1}



ms^{-1}

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correct



9/10

Q : Tungsten 176 has a half life of 2.5 hours. After how many hours will the disintegration rate of a

tungsten-176 sample drop to $\frac{1}{16}$ its initial value?



5



8.3



10



13

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correct



10/10

Q : The half life of a certain element is 3.5 days at S.T.P. If the temperature is doubled and pressure is reduced to half then half life of the same element will be



1.75 days



7 days



3.5 days



14 days

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QUIZZES

Practice test 3 Unit 12

100 Questions

1 hour

10 Marks

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Q : The cosmic radiation consists of

- ☒ high energy particles
- ☐ electromagnetic radiation
- ☐ both a & b
- ☐ low energy charged particles

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SAEED MDCAT TEAM

f SAEEDMDCAT



Q : A sample contains 16 gm of a radioactive material, the half life of which is two days. After 32 days, the amount of radioactive material left in the sample is

- ☐ 14gm
- ☒ less than 1 mg
- ☐ 12gm
- ☐ 1gm

SAEED MDCAT

SAEED MDCAT TEAM

SAEEDMDCAT

Q : The decay constant of a radioactive element is 0.01 per second. Its half life period is

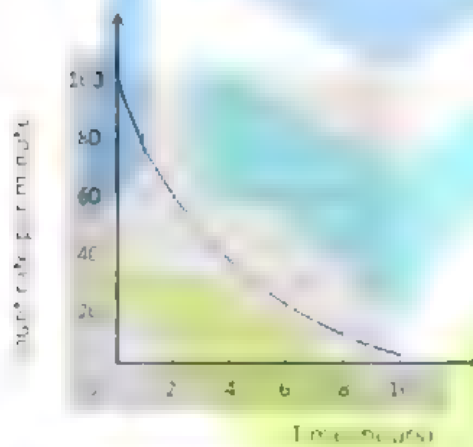
- ☐ 0.693 sec
- ☒ 69.3 sec
- ☐ 6.93 sec
- ☐ 693 sec

SAEED MDCAT

SAEED MDCAT TEAM

 SAEEDMDCAT

Q : The count rate of 10 g of radioactive material was measured at different times and this has been shown in the figure. The half-life of material is



2 hrs

4 hrs

5 hrs

3 hrs

Q:

The half-life of the isotope $^{24}_{11}\text{Na}$ is 15 hours. How much times does it take for $\frac{7}{8}$ th of a sample of this isotope to decay?

☐ 75 h

☐ 65 h

☐ 55 h

☒ 45 h

SAEED MDCAT

SAEED MDCAT TEAM

SAEEDMDCAT



Q : What fraction of a radioactive material will get disintegrated in a period of two half lives?

- ☐ whole
- ☒ half
- ☐ one-fourth
- ☐ three-fourth

SAEED MDCAT

SAEED MDCAT TEAM

SAEEDMDCAT

Q : The half life of radon is

- ☐ 4 days
- ☐ 4 months
- ☐ 4 years
- ☐ 4 weeks

SAEED MDCAT

SAEED MDCAT TEAM

SAEEDMDCAT

Q : Half life of uranoium-239 is

- ☐ 23.5 days
- ☐ 23.5 minutes
- ☐ 23.5 seconds
- ☐ 23.5 years

SAEED MDCAT

SAEED MDCAT TEAM

 SAEEDMDCAT

Q : The radioactive element has the half life of 1600 years, after 6400 years what amount will remain undecay

☐ 1/16

☐ 1/8

☐ 1/2

☐ 1/4

SAEED MDCAT

SAEED MDCAT TEAM

 SAEEDMDCAT



Q : When an animal dies each gram of carbon in its body emits about 16b particles each minute. Each gram of carbon from same animal remains is found to emit 4b particles per minute. How old is the animal (Half life of radioactive carbon is 6000 years)

- ☐ 3000 years
- ☐ 6000 years
- ☐ 12000 years
- ☐ 18000 years

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SAEED MDCAT TEAM

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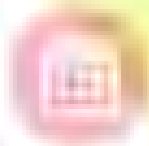


QUIZ RESULT

Practice test 3 Unit 12



1 hr



1 hr



0/10

0%

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correct



1/10

Q : The cosmic radiation consists of



high energy particles



electromagnetic radiation



both a & b



low energy charged particles

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Correct



Incorrect



Incorrect



2/10

Q : A sample contains 16 gm of a radioactive material, the half life of which is two days. After 32 days, the amount of radioactive material left in the sample is



14gm



less than 1 mg



12gm



1gm

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SAEED MDCAT TEAM



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Correct



3/10



Incorrect



3/10

Q : The decay constant of a radioactive element is 0.01 per second Its half-life period is



0.693 sec



69.3 sec



6.93 sec



693 sec

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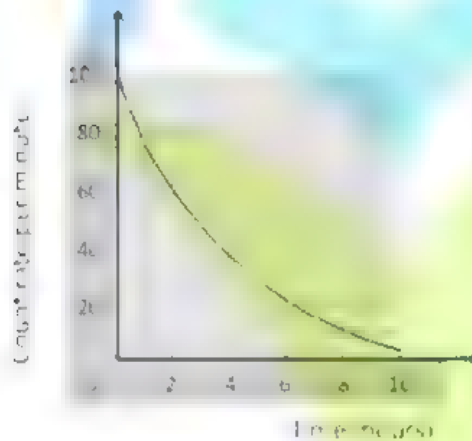


correct



4/10

Q : The count rate of 10 g of radioactive material was measured at different times and this has been shown in the figure. The half-life of material is



2 hrs



4 hrs



5 hrs



3 hrs



Practi



Correct

:

Unattempted



Incorrect

:

5/10

Q:

The half-life of the isotope $^{24}_{11}\text{Na}$ is 15 hours. How much times does it take for $\frac{7}{8}$ th of a sample of this isotope to decay?



75 h



65 h



55 h



45 h



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Correct



6/10



Incorrect



6/10

Q : What fraction of a radioactive material will get disintegrated in a period of two half-lives?



whole



half



one-fourth



three-fourth

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correct



7/10

Q : The half life of radon is



4 days



4 months



4 years



4 weeks

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Correct



Score: 8/10



Incorrect



8/10

Q : Half life of uranoium 239 is



23.5 days



23.5 minutes



23.5 seconds



23.5 years

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correct



9/10

Q : The radioactive element has the half life of 1600 years, after 6400 years what amount will remain undecay



1/16



1/8



1/2



1/4

SAEED MDCAT

SAEED MDCAT TEAM



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correct



10/10

Q : When an animal dies each gram of carbon in its body emits about 16b particles each minute. Each gram of carbon from same animal remains is found to emit 4b particles per minute. How old is the animal (Half life of radioactive carbon is 6000 years)



3000 years



6000 years



12000 years



18000 years

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QUIZZES

Practice test 4 Unit 11

100 Questions

1 hour

Topics

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Q : The penetrating power of X- rays depends on their

- ☐ Applied voltage
- ☐ Filament current
- ☐ Source
- ☐ All of the above

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SAEED MDCAT TEAM

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Q : The transition of inner shell electrons in heavy atoms gives rise to the emission of

- ☒ x rays
- ☐ high energy photons
- ☐ both a and b
- ☐ none of these

SAEED MDCAT

SAEED MDCAT TEAM

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Q : In continuous x-ray spectrum when the electrons lose all their K.E in the first collision, the K.E is expressed as

☐ K.E = hf_{\min}

☐ K.E = $h\lambda_{\max}$

☐ K.E = hf_{\max}

☒ K.E = $h\lambda_{\min}$

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SAEED MDCAT TEAM

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Q:

The continuous X-rays spectrum produced by an X-ray machine at constant voltage has

- ☒ A maximum wavelength
- ☐ A minimum wavelength
- ☐ A single wavelength
- ☐ A minimum frequency

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SAEED MDCAT TEAM

SAEEDMDCAT

Q:

The minimum frequency f of continuous X-rays is related to the applied potential difference V as

☐ $f \propto \sqrt{V}$

☐ $f \propto V$

☐ $f \propto V^{3/2}$

☒ $\nu \propto V^2$

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SAEED MDCAT TEAM

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Q:

If V be the accelerating voltage, then the maximum frequency of continuous X-rays is given by

☐ eh/V

☐ hV/e

☐ eV/h

☐ h/eV

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SAEED MDCAT TEAM

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Q:

Which of the following is accompanied by the characteristic X-ray emission

- ☒ α -particle emission
- ☐ Electron emission
- ☐ Positron emission
- ☐ K-electron capture

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Q:

When cathode rays strike a metal target of high melting point with very high velocity, then

- ☒ X-rays are produced
- ☐ alpha-rays are produced
- ☐ TV waves are produced
- ☐ Ultrasonic waves are produced

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Q:

On increasing the number of electrons striking the anode of an X-ray tube, which one of the following parameters of the resulting X-rays would increase

☐ Penetration power

☐ Frequency

☐ Wavelength

☐ Intensity

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Q:

Intensity of X-rays depends upon the number of



Electrons



Protons



Neutrons



Positrons

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SAEED MDCAT TEAM

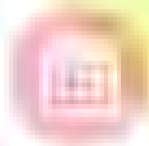


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QUIZ RESULT

Practice test 4 Unit 11



0/10

0%

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Correct



1/10

Q : The penetrating power of X rays depends on their



Applied voltage



Filament current



Source



All of the above

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Correct



Correctness



Incorrect



2/10

Q : The transition of inner shell electrons in heavy atoms gives rise to the emission of



x-rays



high energy photons



both a and b



none of these

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Correct



Incorrect



Incorrect



3/10

Q : In continuous x ray spectrum when the electrons lose all their K E in the first collision, the K E is expressed as



$K.E = hf_{\min}$



$K.E = h\lambda_{\max}$



$K.E = hf_{\max}$



$K.E = h\lambda_{\min}$

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Correct



Incorrect



Correct



4/10

Q:

The continuous X-rays spectrum produced by an X-ray machine at constant voltage has



A maximum wavelength



A minimum wavelength



A single wavelength



A minimum frequency

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Answer



Explanation



Correct



5/10

Q:

The minimum frequency f of continuous X-rays is related to the applied potential difference V as



$$f \propto \sqrt{V}$$



$$f \propto V$$



$$f \propto V^{3/2}$$



$$v \propto V^2$$

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correct



6/10

Q:

If V be the accelerating voltage, then the maximum frequency of continuous X-rays is given by



eh/V



hV/e



eV/h



h/eV

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Practice test 4 Unit 11



Correct



Unattempted



Incorrect



7/10

Q:

Which of the following is accompanied by the characteristic X-ray emission

A

α -particle emission

B

Electron emission

C

Positron emission

D

K-electron capture



Practice test 4 Unit 11



Correct



Unattempted



Incorrect



8/10

Q:

When cathode rays strike a metal target of high melting point with very high velocity, then

A

X-rays are produced

B

alpha-rays are produced

C

TV waves are produced

D

Ultrasonic waves are produced



Correct



Unattempted



Incorrect



9/10

Q:

On increasing the number of electrons striking the anode of an X-ray tube, which one of the following parameters of the resulting X-rays would increase

A

Penetration power

B

Frequency

C

Wavelength

D

Intensity

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Practice test 4 Unit 11



Correct



Unattempted



Incorrect



10/10

Q:

Intensity of X-rays depends upon the number of

A

Electrons

B

Protons

C

Neutrons

D

Positrons

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